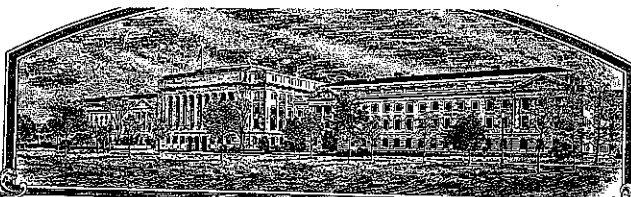


No.

200300162



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

*Syngenta Seeds, Inc.*

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW. NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE VARIETY. (34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Coker 9295'

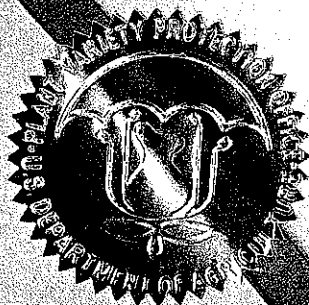
*In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty fourth day of June, in the year two thousand three.*

Attest:

*Blm Jube*

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Seeman*  
Secretary of Agriculture

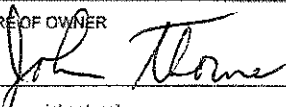


U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**  
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Syngenta Seeds, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME B950943		3. VARIETY NAME COKER 9295	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) P.O. Box 949 Washington, IA 52353-0949 Attn: John Thorne		5. TELEPHONE (include area code) (319)-653-2181		FOR OFFICIAL USE ONLY	
		6. FAX (include area code) (319)-653-4609		PVPO NUMBER <b>200300162</b>	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		9. DATE OF INCORPORATION 1976	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) John Thorne Syngenta Seeds, Inc. P.O. Box 949 Washington, IA 52353-0949				FILING AND EXAMINATION FEES: \$ 2705.00 DATE 2/14/2003 CERTIFICATION FEE: \$ 432.00 DATE 5/12/03	
11. TELEPHONE (include area code) (319)-653-2181		12. FAX (include area code) (319)-653-4609		13. E-MAIL johnc.thorne@syngenta.com	
14. CROP KIND (Common Name) Common Wheat		15. GENUS AND SPECIES NAME OF CROP Triticum aestivum		16. FAMILY NAME (Botanical) Poaceae	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)			
19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(e) of the Plant Variety Protection Act <input checked="" type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input type="checkbox"/> NO (If "no", go to item 22)		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED			
21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? IF YES, SPECIFY THE <input type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED NUMBER 1,2,3, etc. (If additional explanation is necessary, please use the space indicated on the reverse.)		22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES USA, Fall 2002, <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			
23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER 		SIGNATURE OF OWNER			
NAME (Please print or type) John Thorne		NAME (Please print or type)			
CAPACITY OR TITLE Development Dir., Self-pollinated Crops		DATE 24 Jan 2003		CAPACITY OR TITLE 1	

**GENERAL:** To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. **Retain one copy for your files.** All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

**Plant Variety Protection Office**

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

**ITEM**

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;  
(2) the details of subsequent stages of selection and multiplication;  
(3) evidence of uniformity and stability; and  
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:  
(1) identify these varieties and state all differences objectively;  
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and  
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

**21. CONTINUED FROM FRONT** (Please provide a statement as to the limitation and sequence of generations that may be certified.)

**22. CONTINUED FROM FRONT** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

**23. CONTINUED FROM FRONT** (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed/lsg-sd.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete.

**COKER 9295****Exhibit A: Origin and Breeding History**

COKER 9295 is a soft red winter wheat developed from a cross-made by Syngenta Seeds, Inc. in 1987 with a pedigree of CK 86-27//Florida 302/Rosen. CK 86-27 is an unreleased line developed by Coker's Pedigreed Seed Co. The pedigree of this line is VA75-54-53//H-M 2203/Coker 68-15/3/Hunter. VA75-54-53 is an unreleased line from Virginia with a pedigree of Blueboy/Knox 62. H-M 2203 is McNair 2203 released by McNair Seed Co. in 1970. COKER 68-15 is a variety released by Coker's Pedigreed Seed Co. in 1971. Hunter is a variety released by North American Plant Breeders in 1982. Florida 302 is a variety released by the University of Florida in 1985. Arkansas Agricultural Experiment Station released Rosen in 1980. A modified bulk breeding system was used to develop the line. An F3 derived head row was selected and reselection continued until yield testing was initiated in 1995 at the F9 generation. The line was designated B950943. Advanced and elite yield testing along with seed increase have since been occurring until release in 2002 as COKER 9295. Early generation advancement was based on agronomic characteristics and disease resistance; and later, yield along with these criteria was used for advancement. See Table 1 for development procedure.

Table 1: Development of COKER 9295

Season	Generation	Activity
1987		Cross
1987-1988	F1	Bulk seed grown in greenhouse.
1988-1989	F2	Bulk population grown in field, selected 100 heads, advancement based on leaf rust resistance and agronomic traits.
1989-1990	F3	Head row nursery, selection based on maturity, leaf rust resistance and other agronomic traits.
1990-1991	F4	Observation nursery # 1169, reselected heads based on height.
1991-1992	F5	Head row nursery, selection based on maturity and leaf rust resistance.
1992-1993	F6	Observation nursery # 4672, reselected heads based on height and maturity.
1993-1994	F7	Head row nursery, selection based on height, maturity, uniformity and disease resistance.
1994-1995	F8	Observation nursery # 5973, selection and advancement based on maturity, uniformity, height and disease resistance.
1995-1996	F9	Preliminary yield testing, assigned line code B950943. Advancement based on yield, height, uniformity and disease reactions.
1996-1997	F10	Advanced yield testing in company trials, small increase at Bay, AR. Advancement based on yield, agronomic traits and leaf rust resistance.
1997-1998	F11	Yield testing in elite company trials, small increase with nested head rows for purity; advancement based on yield, leaf rust resistance and maturity.
1998-1999	F12	Yield testing in elite company trials, small increase with nested plots for purity; advancement based on yield, agronomic traits and disease resistance.
1999-2000	F13	Yield testing in elite company trials, large pre-breeder increase and tested in Uniform Southern Soft Red Winter Wheat Nursery. Advancement based on yield, agronomic traits and leaf rust resistance.
2000-2001	F14	Continued testing in company trials and Uniform Southern Soft Red Winter Wheat Nursery with breeder seed increase. Advancement based on yield, test weight, uniformity and leaf rust resistance.
2001-2002	F15	Testing in state trials and company trials with foundation seed increase. Released as COKER 9295 and Registered seed sold to TGN Certified Seed Growers in Fall 2002.

**COKER 9295****Exhibit A: Origin and Breeding History of the Variety (cont.)**

COKER 9295 is an F3 derived head row with yield testing initiated as an F9 in the 1995-1996 season. The variety has been tested and observed for 6 years with 5 years of seed increase. COKER 9295 is stable and uniform. Bulking seed from head row generated increase strips that had been maintained separately for three generations of increase for purity, uniformity and stability comparisons was used to develop breeder seed. Variants may include one or more of the following in any combination; taller, unawned, bronze or later type, which may be expressed up to 1 %.

**COKER 9295****Exhibit B: Statement of Distinctness**

COKER 9295 most closely resembles COKER 9803, however COKER 9295 has red colored coleoptiles where COKER 9803 has white colored coleoptiles. COKER 9295 has a flag leaf that is recurved and twisted where COKER 9803 has a flag leaf that is erect and not twisted. COKER 9295 is four days later in heading than COKER 9803.

	<b>Coleoptile</b>	<b>Flag Leaf</b>	<b>2000 Heading Date Bay, AR</b>	<b>2001 Heading Date Bay, AR</b>
<b>COKER 9295</b>	Red	Recurved, twisted	April 17	April 23
<b>COKER 9803</b>	White	Erect, not twisted	April 13	April 19
<b>LSD (0.05)</b>			1	2
<b>CV%</b>			0	1

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705

EXHIBIT C  
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY  
WHEAT (*Triticum* spp.)

NAME OF APPLICANT(S) <b>Syngenta Seeds, Inc.</b>	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or RD No., City, State, and Zip Code) <b>P.O. Box 949 Washington, IA 52353-0949 Attn: John Thorne</b>	PVPO NUMBER <b>200300162</b>
	VARIETY NAME <b>COKER 9295</b>
	TEMPORARY OR EXPERIMENTAL DESIGNATION <b>B950943</b>

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g.  or ) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: Munsell Color Chart

Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND: <input type="text" value="1"/> 1=Common 2=Durum 3=Club 4=Other (SPECIFY): _____	2. VERNALIZATION: <input type="text" value="2"/> 1=Spring 2=Winter 3=Other (SPECIFY): _____
3. COLEOPTILE ANTHOCYANIN: <input type="text" value="2"/> 1 = Absent      2 = Present	4. JUVENILE PLANT GROWTH: <input type="text" value="2"/> 1 = Prostrate 2 = Semi-erect 3 = Erect
5. PLANT COLOR (boot stage): <input type="text" value="1"/> 1 = Yellow-Green 2 = Green 3 = Blue-Green MCC = 5GY 4/8	6. FLAG LEAF (boot stage): <input type="text" value="2"/> 1 = Erect 2 = Recurved  <input type="text" value="2"/> 1 = Not Twisted 2 = Twisted  <input type="text" value="2"/> 1 = Wax Absent 2 = Wax Present
7. EAR EMERGENCE: <input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="0"/> Number of Days (Average) <input type="text" value=""/> <input type="text" value=""/> Number of Days Earlier Than _____ * Same as _____ * <input type="text" value="0"/> <input type="text" value="4"/> Number of Days Later Than <u>COKER 9803</u> *	

\* Relative to a PVPO-Approved Commercial Variety Grown in the Same Trial

6

## 8. ANTHOR COLOR:

☐ 1 = Yellow  
☐ 2 = Purple

## 9. PLANT HEIGHT (from soil to top of head, excluding awns):

☐ 0 ☐ 8 ☐ 6 cm (Average)  
☐ 0 ☐ 5 cm Taller Than COKER 9803 \*  
 Same as \_\_\_\_\_ \*  
☐ ☐ cm Shorter Than \_\_\_\_\_ \*

## 10. STEM:

## A. ANTHOCYANIN

☐ 1 = Absent  
☐ 2 = Present

## B. WAXY BLOOM

☐ 2 = Absent  
☐ 2 = Present

## C. HAIRINESS

(last internode of rachis)

☐ 2 = Absent  
☐ 2 = Present

## D. INTERNODE

☐ 1 = Hollow      2 = Semi-solid      3 = Solid

☐ 4 Number of Nodes

## E. PEDUNCLE

☐ 2 = Erect      2 = Recurved      3 = Semi-erect

☐ 1 ☐ 9 cm Length

## F. AURICLE

☐ 1 Anthocyanin      1 = Absent      2 = Present

☐ 2 Hair      1 = Absent      2 = Present

## 11. HEAD (at Maturity):

## A. DENSITY

☐ 3 = Lax  
☐ 2 = Middense (Laxidense)  
☐ 3 = Dense

## B. SHAPE

☐ 1 = Tapering  
☐ 2 = Strap  
☐ 3 = Clavate  
☐ 4 = Other (SPECIFY): \_\_\_\_\_

## C. CURVATURE

☐ 3 = Erect  
☐ 2 = Inclined  
☐ 3 = Recurved

## D. AWNEDNESS

☐ 2 = Awnless  
☐ 2 = Apically Awnletted  
☐ 3 = Awnletted  
☐ 4 = Awned



## 12. GLUMES (at Maturity):

## A. COLOR

- ☐ 2 1 = White  
 2 = Tan MCC 2.5Y 8/4  
 3 = Other (SPECIFY): \_\_\_\_\_

## B. SHOULDER

- ☐ 1 1 = Wanting 2 = Oblique  
 3 = Rounded 4 = Square  
 5 = Elevated 6 = Apiculate  
 7 = Other (SPECIFY): \_\_\_\_\_

## C. SHOULDER WIDTH

- ☐ 1 1 = Narrow  
 2 = Medium  
 3 = Wide

## D. BEAK

- ☐ 1 1 = Obtuse  
 2 = Acute  
 3 = Acuminate

## E. BEAK WIDTH

- ☐ 2 1 = Narrow  
 2 = Medium  
 3 = Wide

## F. GLUME LENGTH

- ☐ 2 1 = Short (ca. 7mm)  
 2 = Medium (ca. 8mm)  
 3 = Long (ca. 9mm)

## G. WIDTH

- ☐ 2 1 = Narrow (ca. 3mm)  
 2 = Medium (ca. 3.5mm)  
 3 = Wide (ca. 4mm)

## 13. SEED

## A. SHAPE

- ☐ 1 1 = Ovate  
 2 = Oval  
 3 = Elliptical

## B. CHEEK

- ☐ 1 1 = Rounded  
 2 = Angular

## C. BRUSH

- ☐ 2 1 = Short 1 = Not Collared  
 2 = Medium 2 = Collared  
 3 = Long

## D. CREASE

- ☐ 1 1 = Width 60% or less of Kernel  
 2 = Width 80% or less of Kernel  
 3 = Width Nearly as Wide as Kernel

- ☐ 2 1 = Depth 20% or less of Kernel  
 2 = Depth 35% or less of Kernel  
 3 = Depth 50% or less of Kernel

## E. COLOR

- ☐ 3 1 = White  
 2 = Amber  
 3 = Red MCC = 7.5 YR 7/6 - 6/6  
 4 = Other (SPECIFY): \_\_\_\_\_

## F. TEXTURE

- ☐ 2 1 = Hard  
 2 = Soft  
 3 = Other (SPECIFY): \_\_\_\_\_

## G. PHENOL REACTION (see instructions):

- ☐ 6 1 = Ivory 4 = Dark Brown  
 2 = Fawn 5 = Black  
 3 = Light Brown  
 6 = Dark as described by Arkansas State Plant Board.

## H. SEED WEIGHT

- ☐ 3 ☐ 5 g/1000 seed (Whole number only)

## I. GERM SIZE

- ☐ 2 1 = Small  
 2 = Midsize  
 3 = Large

14. Disease : (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

<input type="checkbox"/> 0 Stem Rust ( <i>Puccinia graminis</i> f. sp. <i>tritici</i> )	<input type="checkbox"/> 2 Leaf Rust ( <i>Puccinia recondita</i> f. sp. <i>tritici</i> ) Field races in Arkansas, North Carolina, Virginia, Mississippi, & Georgia 2000, Loose Smut ( <i>Ustilago tritici</i> ) 2001 & 2002.
<input type="checkbox"/> 3 Stripe Rust ( <i>Puccinia striiformis</i> ) Field Races in Arkansas 2000.	<input type="checkbox"/> 0
<input type="checkbox"/> 0 Tan Spot ( <i>Pyrenophora tritici-repentis</i> )	<input type="checkbox"/> 0 Flag Smut ( <i>Urocystis agropyri</i> )
<input type="checkbox"/> 0 Halo Spot ( <i>Selenophoma donacis</i> )	<input type="checkbox"/> 0 Common Bunt ( <i>Tilletia tritici</i> or <i>T. laevis</i> )
<input type="checkbox"/> 0 <i>Septoria nodorum</i> (Glume Blotch)	<input type="checkbox"/> 0 Dwarf Bunt ( <i>Tilletia controversa</i> )
<input type="checkbox"/> 0 <i>Septoria avenae</i> (Speckled Leaf Disease)	<input type="checkbox"/> 0 Karnal Bunt ( <i>Tilletia indica</i> )
<input type="checkbox"/> 3 <i>Septoria tritici</i> (Speckled Leaf Blotch) Field tested Baton Rouge, LA 2000, 2001, & 2002.	<input type="checkbox"/> 3 Powdery Mildew ( <i>Erysiphe graminis</i> f. sp. <i>tritici</i> ) Field races in Kentucky, N. Carolina, Georgia, S. Carolina, Virginia & Pennsylvania 2000, "Snow Molds" 2001 & 2002.
<input type="checkbox"/> 0 Scab ( <i>Fusarium</i> spp.)	<input type="checkbox"/> 0
<input type="checkbox"/> 0 "Black Point" (Kernel Smudge)	<input type="checkbox"/> 0 Common Root Rot ( <i>Fusarium</i> , <i>Cochliobolus</i> and <i>Bipolaris</i> spp.)
<input type="checkbox"/> 0 Barley Yellow Dwarf Virus (BYDV)	<input type="checkbox"/> 0 Rhizoctonia Root Rot ( <i>Rhizoctonia solani</i> )
<input type="checkbox"/> 0 Soilborne Mosaic Virus (SBMV)	<input type="checkbox"/> 0 Black Chaff ( <i>Xanthomonas campestris</i> pv. <i>translucens</i> )
<input type="checkbox"/> 3 Wheat Yellow (Spindle Streak) Mosaic Virus Field tested Syngenta research farm Bay, AR 1999 & 2001.	<input type="checkbox"/> 0 Bacterial Leaf Blight ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )
<input type="checkbox"/> 0 Wheat Streak Mosaic Virus (WSMV)	<input type="checkbox"/> Other (SPECIFY) _____
<input type="checkbox"/> Other (SPECIFY) _____	<input type="checkbox"/> Other (SPECIFY) _____
<input type="checkbox"/> Other (SPECIFY) _____	<input type="checkbox"/> Other (SPECIFY) _____
<input type="checkbox"/> Other (SPECIFY) _____	<input type="checkbox"/> Other (SPECIFY) _____

15. INSECT: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

<input type="checkbox"/> 1 Hessian Fly ( <i>Mayetiola destructor</i> ) Biotypes E, L, & O	<input type="checkbox"/> Other (SPECIFY) _____
<input type="checkbox"/> 0 Stem Sawfly ( <i>Cephus</i> spp.)	<input type="checkbox"/> Other (SPECIFY) _____
<input type="checkbox"/> 0 Cereal Leaf Beetle ( <i>Oulema melanopa</i> )	<input type="checkbox"/> Other (SPECIFY) _____
<input type="checkbox"/> 0 Russian Aphid ( <i>Diuraphis noxia</i> )	<input type="checkbox"/> Other (SPECIFY) _____

15. INSECT: *Continued* (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

☐ 0 Greenbug (*Schizaphis graminum*) ☐ Other (SPECIFY) \_\_\_\_\_

☐ 0 Aphids ☐ Other (SPECIFY) \_\_\_\_\_

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS

See Tables 4, 5, 6, 7 and 8 for specific ratings in Description D.

Table 2:  
COKER 9295

Exhibit D: Additional Description

Baking and Milling Quality  
Syngenta Seeds, Inc.  
2003

	Milling	Baking	Combined	Micro T. Weight	Soft Equivalent	Flour Yield	Flour Protein	Micro AWRC	Cookie Dia.	Top Grade
1997										
Standard (HICKORY)	100.0	100.0	100.0	61.1	59.8	71.3	7.45	55.6	18.13	5
COKER 9295	101.6	105.4	101.6	60.4	58.5	72	6.94	54.9	18.75	4
1999										
Standard (COKER 9543)	100.0	100.0	100.0	61.4	58.2	72	8.39	53.6	18.27	5
COKER 9295	101.7	93	93	58.8	63.4	71.9	7.32	55.7	18.08	6
2000										
Standard (PATTON)	100.0	100.0	100.0	59.7	55.2	71.93	10.08	54.5	17.78	3
COKER 9295	91.9	99	91.9	59.3	54.7	69.97	8.89	56.6	19.16	4

Quality data from USDA Soft Wheat Quality Lab, Wooster, OH. COKER 9295 has been rated as satisfactory. Scores are adjusted to a standard known to exhibit excellent quality.  
1997, 1999 and 2000 are from Syngenta Seeds Elite Company Trials.

Table 3:  
COKER 9295

Exhibit D: Additional Description

Yield Data:  
Syngenta Seeds, Inc.  
2003

*Yield (Bu/Ac)		ALL LOCATIONS				EASTERN US		UPPER EASTCOAST		LOWER EASTCOAST		SOUTH	
		1 Year	2 Year	1 Year	2 Year	1 Year	2 Year	1 Year	2 Year	1 Year	2 Year	1 Year	2 Year
COKER 9295	57	63	65	73	71	74	52	73	51	63			
COKER 9663	55	61	55	65	58	63	48	69	49	59			
COKER 9803	56	62	57	66	63	66	41	65	46	59			
COKER 9543	53	59	53	60	58	60	39	60	44	54			
COKER 9835	47	56	53	62	57	62	44	62	43	56			
Pioneer 26R61	55	62	66	73	67	70	63	81	60	66			
AGS 2000	57	64	63	73	65	71	58	79	56	68			
PATTON	58	63	67	75	71	74	55	76	48	61			
Pioneer 25R26	60	65	63	70	65	68	59	74	53	66			
TEST MEAN	57	62	62	69	66	69	53	71	52	62			
TRIALS W/ DATA	19	33	7	10	5	7	2	3	5	8			
LSD (0.05)	5.1	3.9	9.2	7.7	11.2	9.6	18.8	12.8	9.6	8.5			
CV %	14	13.1	14.1	12.6	13.7	13.2	17.7	11.1	14.8	14			

\*Yield:

1 Year =

2 Year =

2002 yield data from OH, IL, MO, KY, TN, AR, MS, PA, VA, NC, SC and GA Syngenta Seeds, Inc. research trials.  
2002 sites plus 2001 sites from same states.

Table 4:  
COKER 9295

Exhibit D: Additional Description

Agronomic Data:  
Syngenta Seeds, Inc.  
2003

Test Weight	Head Date (4/1) (Bay, AR)		Height in.		Lodging (1-9)		Growth Habit	
	2000	2001	2000	2001	2000	2001	2000	2001
COKER 9295	57.5	58.0	17	23	34	34	2	3
COKER 9663	58.5	59.2	13	21	37	37	3	2
COKER 9803	58.2	59.9	13	19	32	33	3	3
COKER 9543	56.8	58.0	16	19	32	33	3	3
COKER 9835	55.5	57.9	11	22	31	29	3	3
Pioneer 26R61	-	60.6	-	20	35	35	-	3
AGS 2000	-	59.3	-	20	35	34	-	4
PATTON	57.0	55.8	17	19	35	36	3	2
Pioneer 25R26	57.2	57.0	19	21	33	34	4	2
TEST MEAN	57.9	58.8	16	20	34	35	3	3
TRIALS WITH DATA	8	1	1	1	12	11	12	1
LSD (0.05)	1.2	1.4	1	2	1	1	0.7	1
CV %	1	2.3	0	1	5	4	34.1	18

Test Weight (lb/bu): Average test weight taken from 2000: Union City, TN; Dewitt, AR; Whitehall, AR; Plymouth, NC; Warsaw, VA; and Plains, GA; 2001: Bernie, MO; Henderson, KY; Macon, MS; Union City, TN; Whitehall, AR; Bay, AR; Wausen, OH; Warsaw, VA

Head Date: Average date after April 1 at Bay, AR 2000 and 2001

Height: Averaged over 12 locations in 2001 and 11 locations in 2002.

Lodging: 2000 averaged over 3 locations. 2001 averaged over 11 locations. 2002 averaged over 12 locations.

Growth Habit: 2000 & 2001 Bay, AR 1 = Prostrate 5 = Erect

Table 5:  
COKER 9295

Exhibit D: Additional Description

Leaf Rust  
Syngenta Seeds, Inc.  
2003

2000					2001					2002				
LAR	PGA	PNC	WVA	HKY	PNC	PGA	IMMS	LAR	PNC	PGA				
COKER 9295	2	5	3	3	1	3	2	3	2	4				
COKER 9663	2	7	1	2	2	3	7	8	6	8				
COKER 9803	4	6	6	4	3	6	6	3	4	6				
COKER 9543	4	6	4	4	4	7	4	5	5	6				
COKER 9835	3	9	4	4	2	7	9	8	6	9				
Pioneer 26R61	-	-	-	-	2	4	1	2	2	4				
AGS 2000	-	-	-	-	3	3	1	2	3	2				
PATTON	2	2	3	2	3	5	2	5	4	4				
Pioneer 25R26	2	2	5	3	2	2	2	7	2	5				
TEST MEAN	3	4	4	4	3	5	4	4	4	5				
LSD (0.05)	1.5	2.9	1.6	1.5	1.4	1.8	-	1.8	1	2.7				
CV %	29.6	33.7	20.8	17.5	29.6	18.3	-	26	17.8	29.3				
REPS WITH DATA	3	2	2	3	3	2	1	3	2	2				

\*Scale (1 - 9) 1 = no disease present.

LAR = Lewisville, AR  
PGA = Plains, GA  
PNC = Plymouth, NC  
WVA = Warsaw, VA  
HKY = Henderson, KY  
MMS = Macon, MS

Table 6:  
COKER 9295

Exhibit D: Additional Description

Powdery Mildew  
Syngenta Seeds, Inc.  
2003

	2000					2001					2002				
	HKY	KNC	PGA	WNC	WVA	HSC	KNC	PGA	WNC	WVA	MJPA	WVA	WNC	KNC	DSC
COKER 9295	3	3	6	3	6	3	4	3	2	3	5	2	3	4	2
COKER 9663	5	4	5	3	6	2	7	3	3	6	4	7	6	6	5
COKER 9803	3	3	1	3	4	2	5	2	3	5	4	4	5	5	4
COKER 9543	5	3	1	2	5	2	7	3	6	6	4	4	6	5	4
COKER 9835	3	3	2	2	7	3	6	4	3	4	4	3	3	5	3
Pioneer 26R61	-	-	-	-	-	-	3	3	1	2	3	3	3	5	2
AGS 2000	-	-	-	-	-	-	5	2	2	2	3	2	2	4	1
PATTON	4	3	5	3	5	3	5	3	1	3	3	5	3	5	2
Pioneer 25R26	5	3	6	3	7	3	7	6	2	7	4	7	4	5	2
TEST MEAN	4	3	3	3	6	3	6	3	3	1	3	4	3	4	3
LSD (0.05)	2.3	1.2	-	1	1.6	1	1.1	1.6	1.3	1.1	1.3	1.2	1.5	0.8	1
CV %	37.6	19.5	-	26.6	28.7	25.1	9.7	29.2	29.4	16.3	23.8	21.5	22.6	8.8	21.8
REPS WITH DATA	3	2	1	3	3	3	2	3	3	11	3	3	2	2	3

Scale (1 - 9) 1 = none

HKY = Henderson, KY  
KNC = Kinston, NC  
PGA = Plains, GA  
WNC = Winterville, NC

WVA = Warsaw, VA  
HSC = Harstville, SC  
MJPA = Mount Joy, PA  
DSC = Dillion, SC



Table 7:  
COKER 9295

Exhibit D: Additional Description

Other Diseases  
Syngenta Seeds, Inc.  
2003

	Septoria tritici			Stripe Rust		WSSMV	
	2000	2001	2002	2000	2000	1999	2001
	Baton Rouge, LA			Bay, AR	Lewisville, AR	Bay, AR	Bay, AR
COKER 9295	3	4	4	4	4	4	5
COKER 9663	5	3	2	5	4	5	4
COKER 9803	2	3	2	5	4	5	5
COKER 9543	2	3	2	3	4	2	2
COKER 9835	4	3	3	5	7	5	5
Pioneer 26R61	-	2	2	-	-	-	2
AGS 2000	-	3	4	-	-	-	6
PATTON	2	3	2	5	7	-	3
Pioneer 25R26	3	3	2	5	6	-	4
TEST MEAN	-	-	-	4	4	4	4
LSD (0.05)	-	-	-	1.6	1.1	0.9	1.3
CV %	-	-	-	19.9	16.4	13	18
REPS WITH DATA	1	1	1	2	3	3	3

Scale (1 - 9) 1 = none

WSSMV = Wheat Spindle Streak Mosaic Virus identified by Dr. Gene Milus University of Arkansas pathologist.

**Table 8:**  
**COKER 9295**

**Exhibit D: Additional Description**

**Hessian Fly**  
**Syngenta Seeds, Inc.**  
**2003**

2003	Year								
				Biotypes					
	2000			2001		2002			
	E	L	O	L	O	E	L	O	
COKER 9295	0/15	0/12	0/15	0/15	0/15	0/17	0/16	0/18	
COKER 9663	2/10	0/12	0/18	0/11	0/12	3/12	0/12	0/16	
COKER 9803	0/11	0/14	-	0/13	1/9	0/13	0/18	0/14	
COKER 9543	17/0	11/3	0/18	0/11	0/13	14/0	0/12	0/13	
COKER 9835	15/1	0/11	18/0	0/13	16/0	14/0	0/14	14/0	
Pioneer 26R61	-	-	-	0/15	13/0	13/0	2/13	13/0	
AGS 2000	-	-	-	0/16	0/15	2/10	0/13	12/2	
PATTON	14/0	0/12	-	0/12	11/0	16/0	0/9	0/11	
Pioneer 25R26	17/0	0/12	-	0/11	0/14	16/0	0/12	17/0	

R/S Resistant vs Susceptible number of plants.

Screening done by USDA-ARS, Crop Production and Pest Control  
Research Unit, West Lafayette, IN, Dr. Roger Ratcliffe

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

1. NAME OF APPLICANT(S) Syngenta Seeds, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER B950943	3. VARIETY NAME COKER 9295
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) P.O. Box 949 Washington, IA 52353-0949 Attn: John Thorne	5. TELEPHONE (include area code) (319)-653-2181	6. FAX (include area code) (319)-653-4609
7. PVPO NUMBER		200300162

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain

☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. National or a U.S. based company? If no, give name of country

☒ YES ☐ NO
10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (If needed, use the reverse for extra space):

**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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